

## ABSTRACT

A method for improving the quality of data transmission in cellular radio systems utilizing time division multiple access, in which the strength of a signal received at a base station is measured and a decoder for soft decision-making is employed. The method comprises the steps of measuring the strength of the signal the base station receives in at least two consecutive time slots and determining a weighting coefficient by comparing the signal strengths and reducing by means of the determined weighting coefficient in soft bit decision-making the significance of at least one symbol at the beginning of the burst the base station receives in a time slot if the difference between the measured signal strengths is considerable.

(Figure 5)